WHAT IS CLAIMED IS:

1.	\mathbf{A}	golf	ball	comprising
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a substantially spherically shaped body having a dimpled outer surface;

a power source contained within the body;

a transmitter coupled to the power source and configured to emit an electromagnetic signal;

a shock actuated switching device contained within the body; and

a timing device configured to control transmission of the electromagnetic signal for a predetermined time period after actuation of the switching device.

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2. The golf ball of Claim 1, wherein the timing device comprises:

a timer configured to turn the transmitter on upon actuation of the switching device and to turn the transmitter off a predetermined time after actuation of the switching device.

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3. The golf ball of Claim 1, wherein the timing device comprises:

a first timer configured to turn the transmitter on a predetermined time after actuation of the switching device; and

a second timer configured to turn the transmitter off a predetermined time after actuation of the switching device.

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4. A golf ball as in Claim 1, wherein the transmitter comprises at least one light emitting diode.

- 5. A golf ball as in Claim 1, wherein the transmitter comprises at least one antenna that emits a radio frequency electromagnetic signal.
 - 6. A golf ball as in Claim 1, further comprising:a modulator configured to modulate the transmitted electromagnetic signal.

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- 7. A golf ball as in Claim 6, wherein the modulator comprises at least one of a frequency modulator, duration modulator, amplitude modulator, phase modulator, pulse code modulator, and a spread spectrum modulator.
- 8. The golf ball as in Claim 6, wherein the modulator is configured to modulate the electromagnetic signal with player identification information.
 - 9. The golf ball as in Claim 1, wherein the power source is rechargeable.
 - 10. The golf ball as in Claim 1, further comprising:
 an outer cover at least partially transparent to the electromagnetic signal.
- The golf ball as in Claim 1, wherein the electromagnetic signal is transmitted through an outer cover.
 - 12. A golf ball comprising:a substantially spherically shaped body having a dimpled outer surface;

a power source contained within the body; and
means coupled to the power source for transmitting an electromagnetic signal for a

predetermined time period in response to application of a shock to the golf ball.

5 13. The golf ball of Claim 12, wherein the means for transmitting an electromagnetic signal comprises:

a switching means for responding to application of a shock to the golf ball; and a timer means for controlling transmission of the electromagnetic signal after actuation of the switching means.

14. A golf ball as in Claim 12, further comprising: means for modulating the electromagnetic signal.

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- 15. A golf ball as in Claim 14, wherein the modulator means comprises at least one of a frequency modulator, duration modulator, amplitude modulator, phase modulator, pulse code modulator, or a spread spectrum modulator.
- 16. The golf ball as in Claim 15, wherein the means for modulating the electromagnetic signal modulates the electromagnetic signal with player identification information.
 - 17. The golf ball as in Claim 12, wherein the power source is rechargeable.

- 18. The golf ball as in Claim 12, further comprising:
 an outer cover at least partially transparent to the electromagnetic signal.
- 19. The golf ball as in Claim 12, wherein the electromagnetic signal is transmittedthrough an outer cover.